Bruhat Bangalore Mahanagara Palike
Executive Engineer Yelahanka Division

me of Work: Construction of Rain Water Harvesting Pits and Toilets at Parks in ward no-04 Attur, Yelahanka Satellite Town Sub Division

Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
Civil Work								
KSRB 2-2 : Earthwork excavation by manual means for foundation of buildings, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications. (Page No 6, I.No.2.3) 10km lead = (1.28x2x10)+57.								
Basic rate	299.00							
Area Weightage 6%	17.94							
Loading and Unloding & Lead	82.60							
Total	**399.54**							
	Cum							
Rain Water Harvesting pits		18	0.80		3.00	43.20		
$A = \left(\frac{A d^2}{4}\right) d$						**43.20**	**399.54**	**17,260.13**
Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications.								
Basic rate	1901.00							
a) 40mm Jelly	Cum	18	0.40		0.80	**5.76**	**1901**	**10,949.76**
Basic rate	1901.00							
b) 20mm Jelly	Cum	18	0.40		0.80	**5.76**	**1901**	**10,949.76**
Basic rate	2651.00							
c) Coarse sand.	Cum	18	0.40		0.60	**4.32**	**2651**	**11,452.32**
Basic rate	2651.00							
d) Fine Sand	Cum	18	0.40		0.30	**2.16**	**2651**	**5,726.16**
Basic rate	1901.00							
e) 12.5mm chips	Cum	18	0.40		0.30	**2.16**	**1901**	**4,106.16**
Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with latest amendments and conveyingto work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : **HDPE Grade PE80-PN6.0, 710 mm dia.** (Perforated Pipe for Rain Water Harvesting Pit) (BWSSB SR 2017-18, Pg No 121 Item No. 1.18 Code No. K010R)								
Basic rate	15663.00							
Deduct 12% GST	1678.18							
Total	13984.82							

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
		Rmt							
	0.71m dia HDPE Perforated Pipe. For 3.0 Mtr depth,		18	3.00			54.00		
							54.00	**13984.82**	**755180.36**
4	**Providing of Geonets** for Rain Water Harvesting pit on top of the filter media as specified indrawings or as approved by Engineer Incharge.								
	Basic rate	71.03							
		Sqm	18	0.40			**7.20**	**71.03**	**511.42**
5	KSRB 4-1.2 : Providing and laying in **position plain cement concrete of Mix 1:3:6** with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. (P.No-13,I No-4.2,KPWD SR 2018-19)								
	Basic rate	5194.00							
	Area Weightage 6%	311.64							
	Total	**5505.64**							
	For Lead off	**Cum**							
			18	10.00	1.50	0.15	40.50		
							40.50	**5505.64**	**222978.42**
6	Providing and laying **plain/reinforced cement concrete** for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm (I No-37.59.2,P No-271,KPWD SR 2018-19)								
	Basic rate	6670.00							
	Area Weightage 6%	400.20							
	Total	**7070.20**							
	For Lead off	**Cum**							
			18	10.00	1.50	0.15	40.50		
							40.50	**7070.20**	**286343.10**
7	KSRRB M300-18. **Wrought iron and mild steel** welded work (using angles, square bars, tees and channel grills, grating frames, gates and tree guards of any size and design etc. including cost of screens and welding rods or bolts and nuts complete fixed in position but without the cost of excavation and concrete for fixing which will be paid separately complete as per specifications. (P.No 151 of I.No.19.97 of PWD BCSR 2018-19)								
	Basic rate	7187.00							
	Area Weightage 6%	431.22							
	Total	**7618.22**							
		Qtl	18		0.10		1.71		
							1.71	**7618.22**	**13,027.16**
								Total Construction Cost	**1338484.75**
								Towards GST 12%	

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
								Sub Total	1499102.92
								Utility Shifting,Miscellaneous and Rounding off	897.08
								GRAND TOTAL	1500000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019, issue rates dated 21-10-2019 and Data Rates

Ramanjeereh
Assistant Engineer
ward no 04
BBMP Bangalore

Executive Engineer
Yelahanka satellite town sub division
BBMP Bangalore

Executive Engineer
Yelahanka Division
BBMP Bangalore

Administrative Approval

Accorded For Rs 15 lakhs only
Head of A/C P-3294
CER NO :.....94..... Dt:13.01.2020

TA

CE (YNK)

TECHNICALLY SANCTIONED FOR Rs. 15.00 lakhs
Rupees fifteen lakhs only
Under P-3294
2019-20 14th finance commission works
Registered as CE( ) No ..9 9
Subject to ... ated in
enclosed memo EE ( ) No ...../9/
Dt..... Estimate AV Sanctioned
EE/YNK/TS/23/2019-20
Dated 22/01/2020 Rs. 15.00 lakhs

Executive Engineer